

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-036893

(43)Date of publication of application : 07.02.1997

(51)Int.Cl.

H04L 12/28

H04M 3/00

H04Q 3/00

(21)Application number : 08-167208

(71)Applicant : INTERNATL BUSINESS MACH CORP
<IBM>

(22)Date of filing : 27.06.1996

(72)Inventor : BERTIN OLIVIER
LEVY-ABEGNOLI ERIC

(30)Priority

Priority number : 95 95480085

Priority date : 13.07.1995

Priority country : EP

(54) METHOD FOR DECIDING PATH

(57)Abstract:

PROBLEM TO BE SOLVED: To select an optimum path for packet transmission without reserving a band width in a communication system supporting both band width reservation connection and band width non reservation connection.

SOLUTION: The band width is not reserved in advance in the non reservation network connection. The lowest delay priority is placed onto the non reservation traffic and when a buffer in an intermediate link 209 of a network overflows, a non reservation packet is aborted. Since the data profile in the connection is burst and non decisive, links 210, 211 are not completely available for a reserved traffic except at peak. Thus, a non reservation traffic is sent when some band width is available on a link. The path selection (NRPS)(non- reserved path selection) algorithm for non-reservation connection includes steps where the weight function (modified Bellman-Ford algorithm) WR_{ij} , W' depending on both reservation traffic and non reservation traffic is used to provide a weight to each transmission link.

